Sig. Frame

Init. Opt. Length Score Score

0.00

558

487

2785

TOIG of: m33987 check: 7224

Description

to: 2785

PRI 31-OCT-1994

HUMCAIX 2785 bp mRNA linear Human carbonic anhydrase I (CAI) mRNA, complete cds. M33387

M33987.1 GI:179792
Carbonic anhydrase I.
Carbonic anhydrase I.
Carbonic anhydrase I.
Homo sapiens (human)
Homo sapiens
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
Lowe, N., Brady, H.J., Barlow, J.H., Sowden, J.C., Edwards, M. and
Butterworth, P.H.

```
US-10-069-434-4 (1-911)
m33987 TOIG of: m33987 check: 7224 from: 1
                                                                                                                     TOIG of: m33987 check: 7224 from: 1 to: 2785
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                       Sequence Name
                                             1. m33987
                                                                                                                                                         DEFINITION
ACCESSION
VERSION
                                                                                                                                                                                             KEYWORDS
SOURCE
ORGANISM
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PUBMED
COMMENT
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                                                                                                                                                                                                                                                                         AUTHORS
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                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                               TITLE
                                                                                  Results file 069434_4_x_m33987.res made by spaula on Wed 22 Sep 104 12:47:50-PST.
                                                                                                                                                                        Results of the initial comparison of US-10-069-434-4 (1-911) with: File : m33987.seq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        30
500
                                                                                                                       Query sequence being compared:US-10-069-434-4 (1-911)
Number of sequences searched:
Number of scores above cutoff:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   K-tuple
Joining penalty
Window size
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         325
                                              FastDB - Fast Pairwise Comparison of Sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEARCH STATISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          271
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PARAMETERS
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> 0 < Ol | O IntelliGenetics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity matrix
Mismatch penalty
Gap penalty
Gap size penalty
Cutoff score
Randomization group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       54
                                                              Release 5.4
                                                                                                                                                                                                                                                   50-
                                                                                                                                                                                                                                                                                                                                      10-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCORE
```

NEBXCK

SHOPHRUHS

Since no intron sequences were provided this entry is treated as if originating from an mRNA.

Draft entry and computer-readable sequence for [Unpublished (1990)] windly submitted

by N.Lowe, 09-MX-1990.

Author address: N.Lowe
Department of Biochemistry
University College London
WCLE 6BT, U.K.

E-mail:UCDCMAR\*BUCLID.UCL.AC.UK@CUNYVM.CUNY.EDU.

/organism="Homo sapiens" /mol\_type="mRNA" /db\_xref="taxon:9606"

/map="8q13-q22"

874. .879 /gene="CA1" 'gene="CA1"

Standard Deviation

Median 0

487

Total Elapsed 00:00:00.00 0.00

CPU 00:00:00.00

Times:

2785

Number of residues: Number of sequences searched: Number of scores above cutoff:

Location/Qualifiers 1, .2785

Original source text: Human EBV transformed SH B cell line DNA, cDNA to mRNA.

Structure and methylation patterns of the gene encoding human

carbonic anhydrase I Gene 93 (2), 277-283 (1990) 91033039

2121614

translation="MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTS LKPISVSYNPATAKEIINVGHSFHVNPEDÜNNRSVLKGGPFSÖSYRLFQFHFHWGSTN BHGSEHTVDGVKYSAELHVAHWNSAKYSSLAEAASKADGLAVTGVLMKYGEANPKLOK VLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFWTYPGSLTHPPLYESVTWIICKESIS VSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF" note="carbonic anhydrase I (EC 4.2.1.1)"
/codon\_start=1 902. .2165 /gene="CA1" /note="carbonic anhydrase I mRNA (alt.)" note="carbonic anhydrase I mRNA db\_xref="GDB:G00-119-047" protein\_id="AAA51910.1" db\_xref="GI:179793" gene="CA1" gene="CA1' mRNA CDS ORIGIN

M33987 Length: 2785 September 22, 2004 12:44 Type: N Check: 7224

A 100% identical sequence to the query sequence was not found.

The list of best scores is:

The scores below are sorted by initial score. Significance is calculated based on initial score.

CGA	TGTGCACAGCGGAGGGTGAAGCAGCGTTTCTGTGATAGAGTCTCAC-TCTCTC-ACCCAGGCTGGA
-----	--

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> 0 < O | O IntelliGenetics
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FastDB - Fast Pairwise Comparison of Sequences Release 5.4 Results file 069434\_4\_x\_m33987\_inv.res made by spaula on Wed 22 Sep 104 12:49:06-PST.

Query sequence being compared:US-10-069-434-4' (1-911) Number of sequences searched: Number of scores above cutoff: Results of the initial comparison of US-10-069-434-4' (1-911) with: File : m33987.seq

## PARAMETERS

K-tuple 4	indow size 500		
		55.0 0	0
Mismatch penalty	Gap penalty	Cutoff score	Randomization group

## SEARCH STATISTICS

Standard Deviation 0.00	Total Elapsed 00:00:00.00
Median 0	
Mean 68	CPU 00:00:00.00
Tax	
Scores:	Times:

Number of residues: 2785
Number of sequences searched: 1
Number of scores above cutoff: 1

A 100% identical sequence to the query sequence was not found.

The scores below are sorted by initial score. Significance is calculated based on initial score.

The list of best scores is:

M33987 Length: 2785 September 22, 2004 12:44 Type: N Check: 7224

ORIGIN

Sequence Name	Description Lengt.
1. m33987	TOIG of: m33987 check: 7224 2785 68 410 0.00 0
1. US-10-069- m33987	-434-4' (1-911) TOIG of: m33987 check: 7224 from: 1 to: 2785
TOIG of: m3	13987 check: 7224 from: 1 to: 2785
LOCUS DEFINITION	HUMCAIX 2785 bp mRNA linear PRI 31-OCT-1994 Human carbonic anhydrase I (CAI) mRNA, complete cds.
VERSION KEYWORDS	misser: GI:179792 misser: Garbonic anhydrase I.
MSIN	s (muman) s Metazoa; Chordata;
REFERENCE AUTHORS	ia; Primates; Catarrhini; Hominidae; 785) .J., Barlow,J.H., Sowden,J.C., Edwar
TITLE	rth, P.H.
	anhydrase I (2), 277-283 (1990)
ED O	
COMMENT	source text: Human EB\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Since no intron sequences were provided this entry is treated as if originating from an mRNA.
	and
	by N. Low. 39-MAY-1990.
	Author address: N.Lowe Department of Biochemistry
	University College London
	GOWEL STIEEL, DOMAON WCIE 6BT, U.K.
FEATURES	E-mail: UCBCMAR&EUCLID. UCL. AC. UK@CUNYVM. CUNY. EDU. Location/Oualifiers
source	12785
	/organism="Homo sapiens" /mol type="mRNA"
	/db xref="taxon:9606" /man="Rail3-m22"
gene	12785
TATA_Si	/gene="CA1" signal 874879
mRNA	/gene="CA1" 9022165
	<pre>/gene="CA1" /note="carbonic anhydrase I mRNA (alt.)"</pre>
mRNA	
860	/gene="CA1" /note="carbonic anhydrase I mRNA (alt.)"
S .	
	/note="carbonic anhydrase I (EC 4.2.1.1)" /codon start=1
	1-H G
	/db_xref="GDB:G00-119-047"
	/translation="MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTS LKPISVSYNPATAKEIINVGHSFHVNEDDDNRSVLACGPFSDSYRLFQFHFWGSTN EUCPEUWRHDGYDVORTITUMINGENOOTEN
	VLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFWTYPGSLTHPPLYESVTWIICKESIS
***************************************	VSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF"

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GC--GG-----ACCCCCAGT-GAAGGTG--AA----CTGCCGTAACT---GTAGCTTCTAGTGAGGAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCATGCTTCAGAACATACAGTGGATGGATATATTCTGCCG-AGCTTCAGGTAGCT--CACTG-GAATT
1360 1370 1380 1390 1400
                                                                                                                                                                                                      330 340 350 360 370 380 390 AGACAATAGGGAATTGTGTAACCCTTTTCTTTAATGGAA--TCCAAAGTGTCAG-T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  400 410 420 450 450 450 AACTT--TIGCAGT--TGGGAATTAGGTTCACCAATGTAA--AAACA----CTCC--CAAGACAGC--C
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740
                                                                                                                                                                                                                                                                                                                                                      210 220 230 240 250 6-GCCAGC-----TGTTGAGAGCTGATGT--TALAGGTTGCTTTAAAACAA-----TCCATGTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20 30 40 40 80 70 GAGTGGTCAGGAÇTCTGGAGGCTGAGGAGGAGGATCA---CTTGAGTCCAGGAGTT
                                                                                    CAGITICCICTCITGAGCAGCIGATIAAAICCAGACCCGAACCACTICCCHAIAICAGGIICHCACACICTG
670 x 720 x 730
                                                      X
TTTTC--CCCCTGGCATT-TG
Optimized Score = 410 Significance = Matches = 535 Mismatches = Conservative Substitutions =
   68
50%
201
   Initial Score = Residue Identity = Gaps =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       580
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CCACCACGCAGAACTGATTTGTTCTCTGTGTCATCAAAG--TCAACATT--GAAGGAATGGCCGCTGTTGCT

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CTGCAAAGTACTCCAGCCTTGCAAAGCTG-CCTCAAAGGCTGATGGTTTGGTG-TTTTGAT

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